

IN THE CLAIMS

Please make the following claim substitutions:

1 1. (Currently amended) A method for maintaining a connection between
2 a server and a client comprising the steps of:
3 receiving a message;
4 determining whether to store one or more elements of the message;
5 storing the one or more elements of the message when the one or more
6 elements of the message are to be stored;
7 transmitting the message; and
8 determining whether the server has failed and when the server has failed,
9 restoring the server to a pre-failure connection state using the one or more stored
10 message elements, wherein, after restoring the server, an application of the
11 client having a connection with the server has not detected anomalies in the
12 connection.

1 2. (Original) The method as recited in claim 1, further comprising the
2 steps of:
3 determining whether to delay the message; and
4 delaying the transmission of the message until one or more conditions are
5 satisfied when the message is to be delayed.

1 3. (Original) The method as recited in claim 2, wherein the one or more
2 conditions comprises successful storage of the one or more elements
3 of the message.

1 4. (Original) The method as recited in claim 1, further comprising the
2 steps of:
3 determining whether to discard the message;
4 discarding the message when the message is to be discarded; and
5 wherein the message is not transmitted when the message is to be
6 discarded.

1 5. (Original) The method as recited in claim 1, further comprising the
2 steps of:
3 determining whether to modify the message; and
4 modifying one or more elements of the message when the message is to
5 be modified.

1 6. (Previously presented) The method as recited in claim 1, wherein
2 the step of restoring the server to the pre-failure connection state using the one
3 or more stored message elements further comprises periodically transmitting an
4 outgoing message to maintain the connection until the server is restored.

1 7. (Original) The method as recited in claim 1, further comprising the
2 step of periodically storing a current state of the server and discarding any stored
3 elements that are no longer needed to restore the server to the current state.

1 8. (Original) The method as recited in claim 1, wherein the message is
2 a protocol segment.

1 9. (Original) The method as recited in claim 1, wherein the message
2 conforms to the Transmission Control Protocol (TCP) standard.

1 10. (Original) The method as recited in claim 1, wherein the one or
2 more elements are stored in a log server.

1 11. (Original) The method as recited in claim 10, wherein the log server
2 is remotely located from the server.

1 12. (Original) The method as recited in claim 1, wherein the one or
2 more elements are stored in a stable memory in the server.

1 13. (Original) The method as recited in claim 1, wherein the one or
2 more elements are stored in a secondary server.

1 14. (Original) The method of claim 1, further including the step of
2 periodically transmitting, when said server has failed, an outgoing message to
3 the client to maintain the connection until the server is restored.

1 15. – 29. (Canceled)